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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [A structural view of the Cedar programming environment](#)

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

 August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

 Full text available: [pdf\(6.32 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

3 [State-of-the-art presentations: Distributed component technologies and their software engineering implications](#)

Wolfgang Emmerich

 May 2002 **Proceedings of the 24th International Conference on Software Engineering**

 Full text available: [pdf\(1.27 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes

and the notion of model driven architecture. We then assess the st ...

4 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4


Full text available:  [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [index terms](#)



5 The Multics kernel design project

Michael D. Schroeder, David D. Clark, Jerome H. Saltzer

November 1977 **Proceedings of the sixth ACM symposium on Operating systems principles**

Full text available:  [pdf\(1.31 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




We describe a plan to create an auditable version of Multics. The engineering experiments of that plan are now complete. Type extension as a design discipline has been demonstrated feasible, even for the internal workings of an operating system, where many subtle intermodule dependencies were discovered and controlled. Insight was gained into several tradeoffs between kernel complexity and user semantics. The performance and size effects of this work are encouraging. We conclude that verifi ...

Keywords: Multics, Operating systems, Protection, Security, Security kernel, Supervisors, Type extension, Verifiable systems

6 The Flux OSKit: a substrate for kernel and language research

Bryan Ford, Godmar Back, Greg Benson, Jay Lepreau, Albert Lin, Olin Shivers

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  [pdf\(2.47 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



7 A holistic approach to service survivability

Angelos D. Keromytis, Janak Parekh, Philip N. Gross, Gail Kaiser, Vishal Misra, Jason Nieh, Dan Rubenstein, Sal Stolfo

October 2003 **Proceedings of the 2003 ACM workshop on Survivable and self-regenerative systems: in association with 10th ACM Conference on Computer and Communications Security**

Full text available:  [pdf\(1.58 MB\)](#)

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We present SABER (Survivability Architecture: Block, Evade, React), a proposed survivability architecture that blocks, evades and reacts to a variety of attacks by using several security and survivability mechanisms in an automated and coordinated fashion. Contrary to the ad hoc manner in which contemporary survivable systems are built-using isolated, independent security mechanisms such as firewalls, intrusion detection systems and software sandboxes-SABER integrates several different techno ...

Keywords: intrusion detection, overlay networks, survivability


8 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1



Full text available:  [pdf\(5.02 MB\)](#)Additional Information: [full citation](#)**9** Special issue: AI in engineering


D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91Full text available:  [pdf\(8.79 MB\)](#)Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 Distributed systems - programming and management: On remote procedure call


Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**Full text available:  [pdf\(4.52 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

11 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1Full text available:  [pdf\(5.28 MB\)](#)Additional Information: [full citation](#)**12** The COMQUAD component model: enabling dynamic selection of implementations by weaving non-functional aspects

Steffen Göbel, Christoph Pohl, Simone Röttger, Steffen Zschaler

March 2004 **Proceedings of the 3rd international conference on Aspect-oriented software development**Full text available:  [pdf\(1.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The reliability of non-functional contracts is crucial for many software applications. This added to the increasing attention this issue lately received in software engineering. Another development in software engineering is toward component-based systems. The interaction of both, non-functional aspects and components, is a relatively new research area, which the COMQUAD project is focusing on. Our component model, presented in this paper, enables the specification and runtime support of non-func ...

Keywords: AOSD, QoS, adaptivity, components, non-functional properties

13 An approach to standardizing computer systems

Edward Morenoff, John B. McLean

January 1967 **Proceedings of the 1967 22nd national conference**Full text available:  [pdf\(836.23 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The fundamental goal of an evolutionary approach to upgrading a computer installation is the maintenance of a continuity of operation as various elements of the installation (equipment components and system support programs) are replaced. The realization of this goal requires the isolation and separation of the inter-dependencies which now exist between the various elements of a computer installation. This includes the inter-dependencies between programs and the characteristics of equipment ...

14 Q focus: patch and deploy: Understanding software patching

Joseph Dadzie

March 2005 **Queue**, Volume 3 Issue 2

Full text available:  [pdf\(302.51 KB\)](#)
 [html\(27.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Developing and deploying patches is an increasingly important part of the software development process.



15 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**


Full text available:  [pdf\(613.63 KB\)](#)
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16 Survey of software tools for evaluating reliability, availability, and serviceability

Allen M. Johnson, Mirosław Malek

September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 4


Full text available:  [pdf\(3.79 MB\)](#)

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In computer design, it is essential to know the effectiveness of different design options in improving performance and dependability. Various software tools have been created to evaluate these parameters, applying both analytic and simulation techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The purpose, type of models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of the key modeling ...

17 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3


Full text available:  [pdf\(2.91 MB\)](#)

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18 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**


Full text available:  [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

19 Zones, contracts and absorbing changes: an approach to software evolution

Huw Evans, Peter Dickman


October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  [pdf\(2.46 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a novel approach to managing the evolution of distributed, persistent systems at run-time. This is achieved by partitioning a system into disjoint zones, each of which can be evolved without affecting code in any other. Contracts are defined between zones, making type-level interdependencies and inter-zone communication explicit. Programmer supplied code is added to the running system, at the boundary between zones, to constrain the sco ...

20 [Evolving RPC for active storage](#)

Muthian Sivathanu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2002 **Proceedings of the 10th international conference on Architectural support for programming languages and operating systems**, Volume 37 , 36 , 30 Issue 10 , 5 , 5Full text available:  [pdf\(1.56 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

We introduce Scriptable RPC (SRPC), an RPC-based framework that enables distributed system services to take advantage of active components. Technology trends point to a world where each component in a system (whether disk, network interface, or memory) has substantial computational capabilities; however, traditional methods of building distributed services are not designed to take advantage of these new architectures, mandating wholesale change of the software base to exploit more powerful hardw ...

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